

CrIS Atmospheric Chemistry Users workshop
NOAA Center for Weather and Climate Prediction (NCWCP) Building
Large conference room, 2552-2553
College Park, MD
September 18-19, 2014

Agenda

Thursday, September 18th

Remote access information:

1. Please join via:

<https://www2.gotomeeting.com/join/933871482>

2. For audio, join the conference call:

[866-707-2647](tel:866-707-2647) (Call in number – Domestic)

6085281 (Participant Passcode)

Meeting ID: 933-871-482

11:30am – Holiday Inn hotel shuttle leaves from hotel

12:00-1:00 – Security sign in and box lunch (provided in the meeting rooms)

1:00-1:40 – Overview

1:00-1:05 – Welcome: *Wayne Higgins, NOAA Climate Program Office Director*

1:05-1:20 – Overview of Workshop Goals: *Matt Alvarado*

1:20-1:40 – CrIS, Suomi-NPP, and JPSS overview:

Mitch Goldberg, JPSS Program Scientist

1:40-2:55 – CrIS trace gas retrievals: Current Status and Future Prospects

1:40 – Overview of NOAA Operational Hyper Spectral IR + Microwave Retrieval Algorithm: *Chris Barnet*

1:55 – NUCAPS Retrievals for AQ (O₃ and CO): *Antonia Gambacorta*

2:10 – NUCAPS Retrievals for GHGs (CH₄ and N₂O): *Xiaozhen Xiong*

2:25 – NUCAPS Product Validation: *Nick Nalli*

2:40 – NUCAPS Product Files: *Awdhesh Sharma*

2:55 – Extension of TES NH₃ and CO algorithms to CrIS:

Matt Alvarado

3:10-3:40 – Q&A panel on CrIS Trace Gas Retrievals

3:40-4:00 – Coffee break

4:00-5:30 – Use of TIR Retrievals in Atmospheric Chemistry and Climate Studies

4:00 – Chemical Reanalysis in support of Air Quality Applications: *Brad Pierce*

- 4:15 – Use of hyperspectral thermal IR measurements to constrain and attribute climate forcing: *Kevin Bowman*
- 4:30 – Inverse modeling of CO emissions using retrievals of multiple trace gases: *Dylan Jones*
- 4:45 – Land-atmosphere fluxes and chemistry of VOCs: Constraints from TIR satellite observations: *Dylan Millet*
- 5:00 – Fresh constraints on the global reactive nitrogen budget through new TES ammonia and PAN observations: *Juliet Zhu*
- 5:15 – Satellite Measurements of Carbon Monoxide for Atmospheric Chemistry and Climate Studies: *Helen Worden*
- 5:30-6:00 – Q&A panel on the use of TIR Retrievals in Atm. Chemistry and Climate studies**

6:00-7:30 – Poster session, informal discussions, reception

7:30 – Shuttle bus leaves for Holiday Inn

Friday, September 19th:

Remote access information

1. Please join via:

<https://www2.gotomeeting.com/join/963592626>

2. For audio, join the conference call:

[866-707-2647](tel:866-707-2647) (Call in number – Domestic)

6085281 (Participant Passcode)

Meeting ID: 963-592-626

7:30am – Shuttle bus leaves Holiday Inn

8:00 – Security sign in and breakfast

8:30-8:45 – Outline of charge to breakout groups:

- (a) ID users and applications
- (b) Describe status of current CrIS products
- (c) ID validation needs
- (d) ID needed product changes/refinements
- (e) Discuss potential new products

8:45-10:45 – Breakout Sessions

- (a) Greenhouse Gases (CH₄, CO₂, N₂O, etc.) – Room 2552-2553
- (b) Air Quality (CO, O₃, NH₃, etc.) – Room 2554-2555

10:45-11:00 – Coffee break

11:00-12:00 – Reports from breakout groups (15 min plus 5 for questions)

12:00-1:00 Box lunch

1:00-3:00 – Discussion of breakout group reports and draft report for NOAA

3:00-3:30 – Coffee break

3:30-4:30 – Finish discussion, assign action items

4:30 – Adjourn

5:00 – Shuttle bus leaves for Holiday Inn and College Park Metro station (Metro shuttle bus also available for connection to College Park Metro station)